

Technical Notification

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Date: March – 2011

New software ver. 1.13
TT-3740A SAILOR 500, TT3742A SAILOR 250, TT3744A
SAILOR 150, TT-3722A EXPLORER 727 & TT-3733
EXPLORER 325

Subject:

Please be informed that a new software version 1.13 for the Thrane & Thrane BGANX platform SAILOR 500, SAILOR 250, Sailor 150, EXPLORER 727 & Explorer 325 has been released.

Priority:

- **MEDIUM:** It is recommended to apply this change / initiative to all units in stock. For units sold it is recommended to apply this change / initiative next time the system(s) is inspected.

Changes from ver. 1.12 to 1.13:

- **New features and improvements** related to SAILOR 500, SAILOR 250, SAILOR 150, EXPLORER 727 and EXPLORER 325:
 - Data Limits (Counters/Timers to limit data usage). Appendix I
 - Tracking support – Position data reporting (not supported by S150) . Appendix II
 - BDU bug fixes: Improved NAT and DNS handling
 - Added support for multiple ISDN TEI – improved handling of ISDN TEI

Continued....

Action:

Download file **FB500_250_150 Exp325_727 ver_113.zip** located at Thrane & Thrane extranet <http://extranet.thrane.com/Support.aspx> or at the Thrane & Thrane A/S eSupport Download Centre: <http://extranet.thrane.com/Support/Technical%20Support.aspx> and save / extract it to your hard disk.

For End Users (from the SAILOR FB):

D) Download the file from the Thrane & Thrane FleetBroadband update server via the SAILOR web server. Please note that if this is over air transmission, it will add cost to your airtime bill. **File Size is approximately 7.0 MB!!**

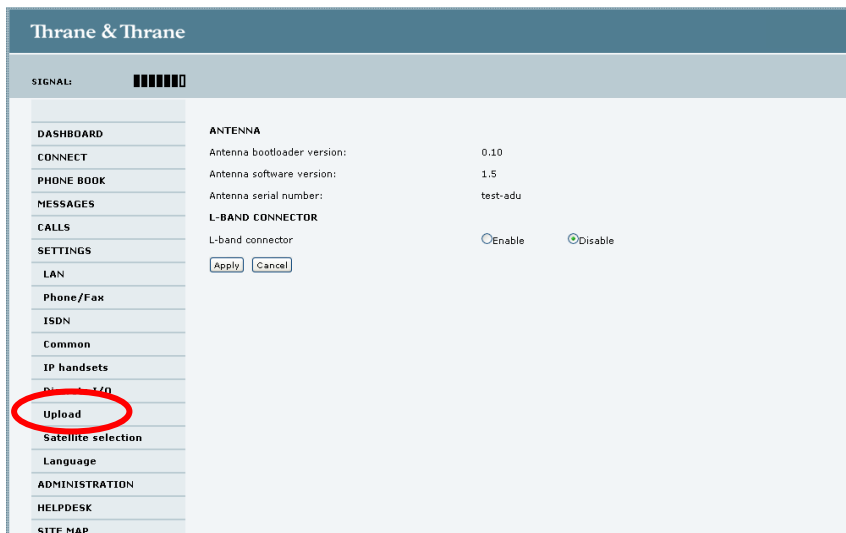
From Web interface:

1. Make sure the Terminal is switched on and connect the Ethernet cable to your PC.
2. Open your web-browser and open the Web Interface of the Terminal at address <http://192.168.0.1/>
3. Select **SETTINGS**.

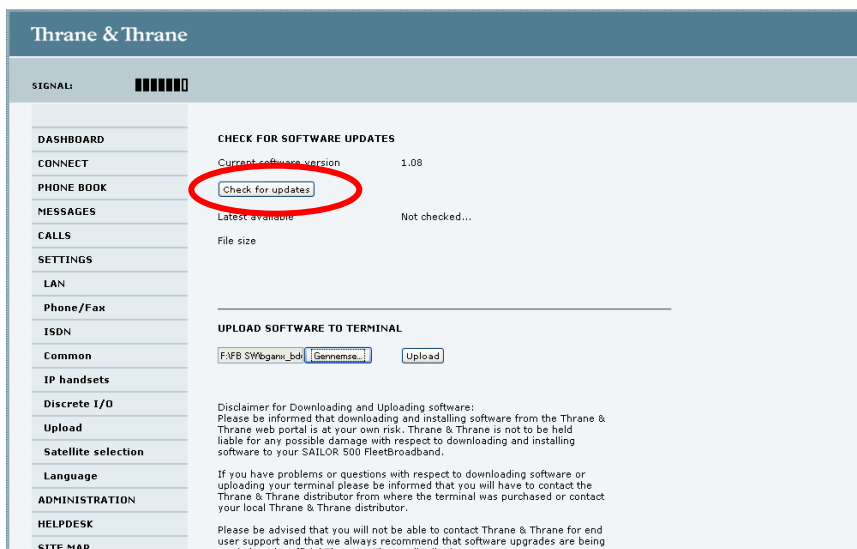
The screenshot shows the Thrane & Thrane web interface. On the left is a sidebar menu with the following items: DASHBOARD, CONNECT, PHONE BOOK, MESSAGES, CALLS, **SETTINGS** (highlighted with a red circle), ADMINISTRATION, HELPDESK, and SITE MAP. The main content area is divided into several sections:

- SIGNAL:** 00000000
- PROPERTIES:**
 - Airtime provider: Telenor Satellite Services
 - GPS position: Acquiring
 - Status: Scanning
 - Satellite selection: AOR
 - Unit serial number: 07441420
 - Software version: 1.08, build 1
 - Local IP address: 192.168.0.1
 - IMEI number: 35162402-000605-4
 - MAC address: 00:11:CF:01:5D:D0
 - Antenna status: Detecting antenna
- SESSIONS TOTAL:**
 - Standard voice inbound: 00:00:39
 - Standard voice outbound: 00:01:12
 - 3.1 kHz audio inbound: 00:00:00
 - 3.1 kHz audio outbound: 00:00:00
 - Standard data: 18.68 MB
 - Streaming 32 kbps: 00:00:00
 - Streaming 64 kbps: 00:00:00
 - Streaming 128 kbps: 00:00:00
- ONGOING DATA SESSIONS:** (No active data sessions)
- ONGOING CALLS:** (No active calls)
- PROFILES ON LAN (DEFAULT GROUP):**
 - [Start Standard](#)
 - [Refresh](#)

4. Select **Upload**.



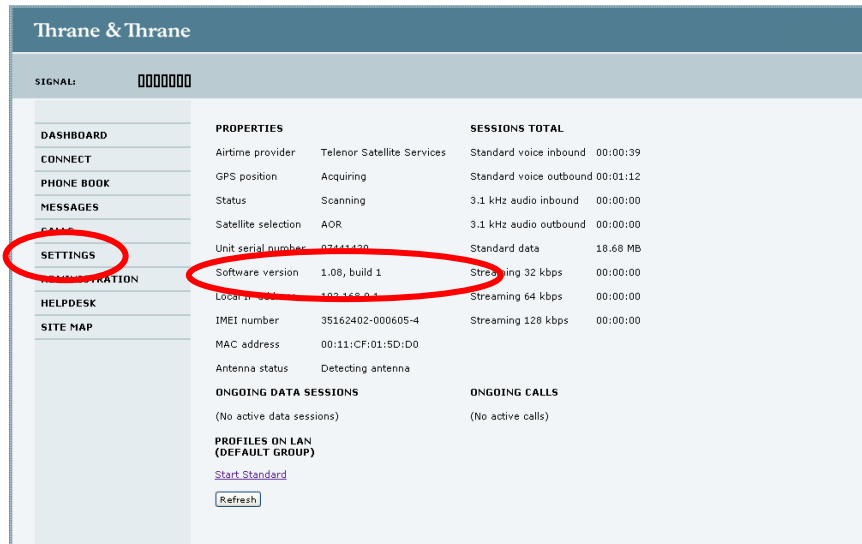
5. Select **Check for updates** and when found, press download and store on the hard disk of the PC. **The file is approx 7.0 MB. Airtime fee applies!**



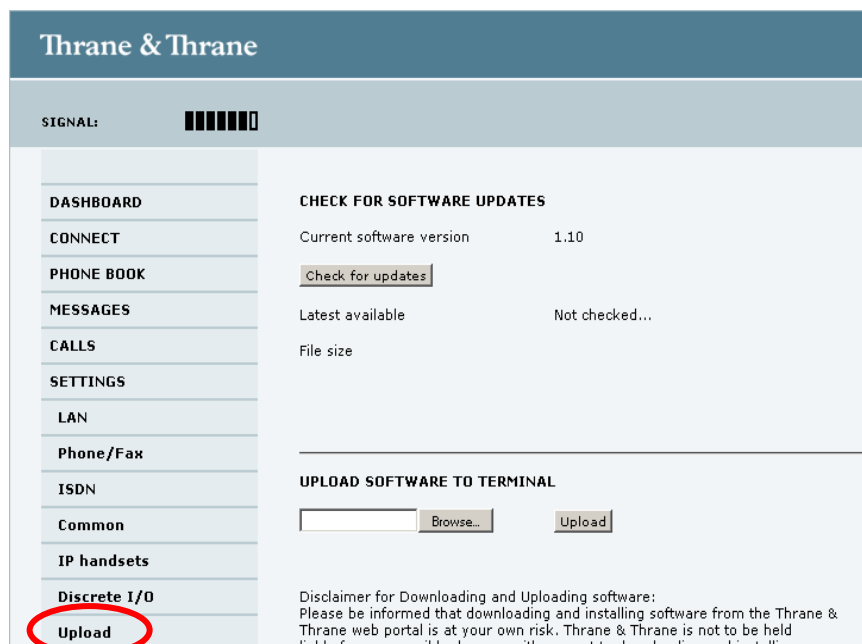
6. When downloaded to the hard disk of the PC, follow the description below for updating the SAILOR 500/250/150 or EXPLORER 727.
7. End of download procedure.

The following will describe the procedure for INSTALLING ver. 1.13 on SAILOR 500/250/150 and EXPLORER 727.

1. Make sure the Terminal is switched on and connect the Ethernet cable to your PC.
2. Open your web-browser and open the Web Interface of the Terminal at address <http://192.168.0.1/>
3. Select **SETTINGS**.



4. Select **Upload**.



5. Select **Browse...** and locate and select the SW file stored and extracted to **bganx_bdu_ver_113.dl** with the Explorer.

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SIGNAL: ■■■■■■

DASHBOARD

CONNECT

PHONE BOOK

MESSAGES

CALLS

SETTINGS

LAN

Phone/Fax

ISDN

Common

IP handsets

Discrete I/O

Upload

CHECK FOR SOFTWARE UPDATES

Current software version 1.10

[Check for updates](#)

Latest available Not checked...

File size

UPLOAD SOFTWARE TO TERMINAL

[_aj-10-bganx_bdu.dl](#) [Browse...](#) [Upload](#)

Disclaimer for Downloading and Uploading software:
Please be informed that downloading and installing software from the Thrane & Thrane web portal is at your own risk. Thrane & Thrane is not to be held liable for any possible damage with respect to downloading and installing

6. Choose **Upload** and verify that the upload is in progress screenshot - below.

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SIGNAL: ■■■■■■

DASHBOARD

CONNECT

PHONE BOOK

MESSAGES

CALLS

SETTINGS

LAN

Phone/Fax

ISDN

Common

IP handsets

Discrete I/O

Tracking

Upload

Satellite selection

Language

ADMINISTRATION

HELPDESK

SITE MAP

CHECK FOR SOFTWARE UPDATES

Current software version 1.13

[Check for updates](#)

Latest available Not checked...

File size

UPLOAD SOFTWARE TO TERMINAL

[C:\bganx_ver_113.dl](#) [Browse...](#) [Upload](#)

Disclaimer for Downloading and Uploading software:
Please be informed that downloading and installing software from the Thrane & Thrane web portal is at your own risk. Thrane & Thrane is not to be held liable for any possible damage with respect to downloading and installing software to your EXPLORER 727.

If you have problems or questions with respect to downloading software or uploading your terminal please be informed that you will have to contact the Thrane & Thrane distributor from where the terminal was purchased or contact your local Thrane & Thrane distributor.

Please be advised that you will not be able to contact Thrane & Thrane for end user support and that we always recommend that software upgrades are being carried out by official Thrane & Thrane distribution partners.

Waiting for http://192.168.0.1/upload_image...

7. When the upload is done, the Terminal will reboot, select the address <http://192.168.0.1/> again and verify the software version at **DASHBOARD** under **PROPERTIES** is listed as: **1.13, build 16**.

The screenshot shows the Thrane & Thrane DASHBOARD interface. On the left is a navigation menu with options: DASHBOARD, CONNECT, PHONE BOOK, MESSAGES, CALLS, SETTINGS, ADMINISTRATION, HELPDESK, and SITE MAP. The main content area is divided into three columns. The first column, 'PROPERTIES', lists various system parameters. The 'Software version' entry is circled in red and shows '1.13, build 16'. Other properties include Airtime provider (BETA TEST DATA), GPS position (Acquiring), Status (Searching), Satellite selection (Auto), Current satellite (EMEA (elevation: 25°)), Unit serial number (08445527), Local IP address (192.168.0.1), IMEI number (35162402-002891-8), and Antenna status (Sky scan). The second column, 'SESSIONS TOTAL', shows various session statistics. The third column, 'ONGOING DATA SESSIONS' and 'ONGOING CALLS', shows no active sessions or calls. At the bottom, there is a 'PROFILES ON LAN (DEFAULT GROUP)' section with a 'Start Standard' link and a 'Refresh' button.

PROPERTIES	SESSIONS TOTAL
Airtime provider: BETA TEST DATA	Standard voice inbound: 00:00:00
GPS position: Acquiring	Standard voice outbound: 00:00:00
Status: Searching	3.1 kHz audio inbound: 00:00:00
Satellite selection: Auto	3.1 kHz audio outbound: 00:00:50
Current satellite: EMEA (elevation: 25°)	Standard data: 12.25 MB
Unit serial number: 08445527	Streaming 32 kbps: 00:00:00
Software version: 1.13, build 16	Streaming 64 kbps: 00:00:00
Local IP address: 192.168.0.1	Streaming 128 kbps: 00:00:00
IMEI number: 35162402-002891-8	Streaming 256 kbps: 00:00:00
Antenna status: Sky scan	

ONGOING DATA SESSIONS
(No active data sessions)

ONGOING CALLS
(No active calls)

PROFILES ON LAN (DEFAULT GROUP)
[Start Standard](#)
 Refresh

Pls. note that the terminal might start an antenna software upgrade after the reboot. Make sure that the upgrade has ended before disconnecting antenna or switching the system of. (**All LED on terminal must be green and no warning in the event list**)

8. End of update procedure.

Appendix I.

Data limits for PS sessions

PDP contexts can be closed if a configurable limit is reached. This is to avoid connections being prolonged with high unintended airtime expenses.

Data limit for standard data (background) can be entered as a whole number of MB (range 1-2048).

Data limit for streaming connections can be selected in 30 minute steps (max 6 hours). One entry for each of the streaming rates.

If data limit is set for standard data, then auto-activation is disabled and cannot be enabled again until data limit has been disabled.

PDP context closed due to data limit has a separate cause code in call log.

Setting data limit for e.g. streaming 32 applies to all streaming 32 connections - no matter which network user group they belong to. The data limit is set per traffic type not profile, that is, a user defined profile set to run Streaming 32 will be treated the same way as the Streaming 32 predefined profile.

Enabling of data limit takes effect immediately, meaning it will be applied to already active connections.

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SIGNAL: ■■■■■■■

		Estimated max charge
DASHBOARD	Standard data ☐ Close after 0 MB	0.00
CONNECT	Streaming 32 ☐ Close after 0:30 hours	0.00
PHONE BOOK	Streaming 64 ☐ Close after 0:30 hours	0.00
MESSAGES	Streaming 128 ☐ Close after 0:30 hours	0.00
CALLS	Streaming 256 ☐ Close after 0:30 hours	0.00
SETTINGS	Apply Cancel	
ADMINISTRATION	Disclaimer: The estimated charges are based on the values entered on the Call Charges page. The values are only indicative and Thrane & Thrane cannot be held liable for any differences between these and your actual bill.	
Call charges		
Log handling		
Data limits		
Profiles		
Traffic flow filters		
SIM PIN		
SIM Lock		
User permissions		

Appendix II.

Tracking support

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SIGNAL: ■■■■■■■■

SERVER CONNECTION

Server IP address:

Server port:

Client port:

Encryption key:

Allow remote control ☒ Yes ☐ No (can only be changed by an administrator)

APN

☐ Common

☒ SIM default

☐ Network assigned

☐ User defined:

POSITION REPORTS

Report type: ☒ Compressed ☐ Extended ☐ ECEF

INTERVAL REPORT

Status: ☐ Enabled ☒ Disabled

Report each: : (hh:mm)

DISTANCE REPORT

Status: ☒ Enabled ☐ Disabled

When moved: meters

Max one report per: : (hh:mm)

Server Connection:

Server IP address: This IP Address will be for the tracking server that the BGAN terminal will report to that is either setup by the Distribution Partner or the end user.

Server port: The default server port number is 7474

Client Port: The default client port number is 7475

Encryption Key: Encryption will be done using a pre-shared key which is entered by the user. The key must be 128 bits long and match on both the client and server side.

Position Reports:

Report Type: Compressed: This message cannot be extended and is limited to the Latitude and Longitude parameter. The message fills exactly one cipher block of data (16 bytes)

Extended: Includes additional info to the compact version and is also extendable with user data

ECEF: Holds the same info as the extended position report but position and speed data are 3D (ECEF coordinates). The course has been omitted as it can be calculated from the 3D velocity vector.

Thrane & Thrane
After Sales Service

Author:	Date:	Checked:	Date:	Approved:	Date:
JDO	21-03-2011	MRI	21-03-2011		